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10/777,432

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Dae-Gyun Kim

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EXAMINER

HERRERA, DIEGO D

ART UNIT

PAPER NUMBER

2617

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/777,432

**Applicant(s)**

KIM ET AL.

**Examiner**

DIEGO HERRERA

**Art Unit**

2617

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 19 May 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SF/ICE)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_
- Paper No(s)/Mail Date \_\_\_\_\_

## **DETAILED ACTION**

### ***Claim Objections***

Claims 5-6, and 8-9 are objected to because of the following informalities:

Replace "if" with "when". "If" renders uncertainty as to what other results may or may not happen when the "if" statement happens or if it does not. Appropriate correction is required.

### ***Response to Amendment***

Claims 4, 6, and 9 have been amended.

### ***Response to Arguments***

Applicant's arguments filed 5/19/2008 have been fully considered but they are not persuasive. In response to applicant's arguments, claims 1, 4, 6, 9, and 10; Martin et al. discloses method and system. System comprises that of base stations and access nodes in a Wireless Local Loop system part of cellular network. Method of fast call set-up by not waiting for complete dialing sequence of user, instead it sets up a channel request, hence, one skilled in the art knows that this means that the mobile terminal has accesses the RACH to send a channel request message to the network this in essence is the origination message that the applicant is referring to as per his specification and described by the cited reference of Martin et al. Martin et al. even explains the same problems to solve in the "background of the invention" and provides the solution in the "summary of the invention" by providing a pseudo-number to establish a channel for communication with the base station and network while user is still dialing number of interest, see col. 3 lines: 65—col. 4 lines: 35.

In response to applicant's arguments, Martin et al. discloses a system that is made of GSM and PLMN networks that support wired and wireless communications, see col. 5 lines: 48-56 and 6 lines: 29-37, one can see the objective of facilitating wireless communication of GSM interlink with PLMN or a fixed wired network the ability to establish a channel connection for communicating one skilled in the art knows that there are protocols between the GSM and PLMN in order for services to be establish.

In regards to claims 2, 3, 5, 7, 8, and 11-16, the dependent claims read on the cited reference of Martin et al.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-16 are rejected under 35 U.S.C. 102 (e) as being anticipated by Martin et al. (US patent 6631275 B1).

**Regarding claim 1**, Martin et al. shows and discloses a method for performing call set up by a mobile station in a mobile communication system having a base station for serving the mobile station (abstract, title, fig. 4-5, col. 5 lines: 1-7), the method comprising the steps of: entering at least one digit of a recipient's phone number (abstract, col. 5 lines: 1-7, 33- 42);

transmitting to the base station, in response to the entering of the at least one digit of the recipient's phone number, an origination message that does not contain a recipient's phone number (abstract, fig. 4, col. 5 lines: 65-67--col .6 lines: 1-4);

receiving a channel assignment message for a forward and reverse traffic .channels from the base station, setting up wireless channels to the base station according to assignment information included in the channel assignment, message (col. 4 lines: 1-9, fig. 4-5); and

completing entry of the recipient's phone number, transmitting to the base station, in response to a send key input, an origination continuation message containing the recipient's phone number (col. 2 lines: 45-55).

a mobile switching center for controlling the base station (col. 2 lines: 15-28).

**Regarding claim 4**, Martin et al. discloses and shows a method for performing call setup by a base station upon a call attempt by a mobile station in a mobile communication system having the base station for serving the mobile station, and a mobile switching center for controlling the base station (fig. 1-5, col. 2 lines: 15-28), the method comprising the steps of:

Entering at least one digit corresponding to a recipient's phone number; receiving an origination message by the base station, that does not contain the recipient's phone number from the mobile station, assigning to the mobile station wireless resources and transmitting to the mobile station a channel assignment message containing the assignment information (col. 4 lines: 1-9);

After transmitting the channel assignment message, assigning wireless channels to the mobile station (col. 4 lines: 17-18);

After completion of the assignment of the wireless channels, transmitting to the mobile switching center a service request message when an origination continuation message, transmitted in response to a send key input, containing a recipient's phone number is received from the mobile station (abstract, title, fig. 5, col. 6 lines: 43-51); and Upon receiving a wireless resource assignment request message from the mobile switching center, acknowledging the wireless resource assignment request message as a message indicating completion of the assignment of the wire resource in the mobile switching center (col. 6, lines: 29-42, 59-67), and transmitting a wireless resource assignment complete message to the mobile switching center (col. 6 lines: 52-56).

**Regarding claim 6**, Martin et al. shows and discloses a method for performing call setup by a base station upon a call attempt by a mobile station in a mobile communication system having the base station for serving the mobile station, and a mobile switching center for controlling the base station (fig. 1-5, col. 2 lines: 15-28), the method comprising the steps of: receiving an origination message generated in response to the entry of at least one digit corresponding to a recipient's phone number (col. 4 lines: 1-9); Upon receiving an origination message from the mobile station, transmitting to the BSC a service request message, simultaneously assigning wireless resources to the mobile station, and transmitting a channel assignment message containing the assignment information to the mobile station (abstract, col. 1 lines: 65--col. 2 lines: 6);

If a wireless resource assignment request message is received from the mobile switching center, acknowledging the wireless resource assignment request message as a message indicating completion of the assignment of the wire resource in the mobile switching center (col. 6 lines: 22--col. 7 lines: 5), and

Transmitting, after receiving an origination complete message generated in response to the entry of a send key, an assignment complete message to the BSC if an assignment request message is received from the mobile switching center (col. 3 lines: 30-32)

**Regarding claim 9**, Martin et al. a method for performing call set up by a base station upon call attempt by a mobile station in a mobile communication system having the base station for serving the mobile station, and a mobile switching center for controlling the base station (fig. 1-5, col. 2 lines: 15-28), the method comprising the steps of: Upon receiving an origination message, transmitted in response to the entry of at least one digit corresponding to a recipient's phone number (abstract, col. 5 lines: 1- 7, 33-42), that does not contain the recipient's phone number from the mobile station, transmitting a service request message requesting assignment of a wire resource to the mobile switching center (col. 4 lines: 1- 10, col. 6 lines: 22—col. 7 lines: 4), simultaneously assigning wireless resources to the mobile station, and transmitting a channel assignment message including the assignment information to the mobile station (abstract, col. 1 lines: 65--col.2 lines: 6); After transmitting the channel assignment message, assigning wireless channels to the mobile station (col. 4 lines: 1-10);

After assignment of the wireless channels, transmitting to the mobile switching center a recipient's phone number when an origination continuation message, transmitted in response to entry of a send key, is received from the mobile station (fig. 1-5, col. 2 lines: 15-28, abstract, title, fig. 5, col. 6 lines: 43-51 ); and

After assignment of the wireless channels, if a wireless resource assignment request message is received from the mobile switching center in response to a service request message, acknowledging the wireless resource assignment request message as a message indicating completion of the assignment of the wire resource in the mobile switching center (col. 6 lines: 22--col. 7 lines: 5), and transmitting to the mobile switching center a wireless resource assignment complete message (fig. 5, col. 6 lines: 5-21).

**Regarding claim 10**, Martin et al. shows and discloses a mobile station apparatus for performing call setup in a mobile communication system (fig. 1-5), comprising:

A key input unit for generating a key signal corresponding to a key input by a user (col. 5 lines: 8-20);

A radio frequency (RF) unit for up-converting a signal to be transmitted to a base station into a RF signal, and down-converting an RF signal received from the base station into a base band signal (col. 1 lines: 17-28);

An inherent modem for encoding and modulating data or a message to be transmitted to the base station, providing the modulated data or message to the RF unit, and demodulating and decoding the base band signal received from the RF unit (col. 2 lines: 46-55); and



A controller for generating an origination message, in response to the entry of at least one digit of a recipient's phone number (abstract, title, fig. 5, col. 6 lines: 43-51 ), that does not contain the recipient's phone number and providing the origination message to the modem when a dial signal is received from the key input unit (abstract, title, fig. 1- 5, col. 3 lines: 6-13), controlling the RF unit to setup wireless channels (col. 1 lines: 17-28), for a forward and a reverse traffic channels and performing service negotiation upon receiving a channel assignment message (abstract, col. 5 lines: 1-7, 33-42), and generating, in response to an entry of a send key input (fig. 1-5, col. 2 lines: 15-28, abstract, title, fig. 5, col. 6 lines: 43-51 ), an origination continuation message to the modem when a key input complete signal is received from the key input unit (abstract).

**Consider claim 2**, and as applied to claim 1 above, Martin et al. discloses and shows wherein the step of setting up wireless channels comprises the steps of: Assigning the forward traffic channel and the reverse traffic channel corresponding thereto according to the assignment information, and transmitting a preamble over the assigned reverse traffic channel (abstract, title, fig. 1-5, col. 6 lines: 43-56); and Exchanging acknowledgement (ACK) orders with the base station and performing service negotiation with the base station (col. 6 lines: 53-55).

**Consider claim 5**, and as applied to claim 4 above, Martin et al. discloses and shows further comprising the steps of: a. Upon receiving the assignment request message from the mobile switching center, determining whether assignment of the wireless channels is completed (abstract, title, fig. 1-5, col. 4 lines: 1-9, 17-18); and b.

Transmitting the assignment complete message to the mobile switching center if assignment of the wireless channels is completed (abstract, title, fig. 1-5, col. 3 lines: 6-13).

**Consider claim 7**, and as applied to claim 6 above, Martin et al. discloses and shows the assignment request message from the mobile switching center is received after a service request message is transmitted (fig. 1-5).

**Consider claim 8**, and as applied to claim 6 above, Martin et al. discloses and shows further comprising the steps of:

Upon receiving the assignment request message from the mobile switching center, determining by the base station whether assignment of the wireless channels is completed (abstract, title, fig. 1-5, col. 4 lines: 1-9, 17-18); and

Transmitting the assignment complete message to the mobile switching center if assignment of the wireless channels is completed (abstract, title, fig. 1-5, col. 3 lines: 6-13).

**Consider claims 3 and 11**, and as applied to claim 1 above, Martin et al. discloses and shows the origination message includes a dummy phone number consisting of all '0s' (abstract, title, fig. 4-5, col. 6 lines: 5-21).

**Consider claim 12**. The method of claim 4, Martin et al. discloses and shows wherein the step of assigning wireless channels comprises: assigning, before input of the send key, a forward traffic channel and a reverse traffic channel corresponding thereto according to the assignment information (abstract, title, fig. 1-5, col. 4 lines: 1-9, 17-18), and transmitting a preamble over the assigned reverse

traffic channel (fig. 1-5); and exchanging acknowledgement (ACK) orders with the base station and performing service negotiation with the base station (col. 6 lines: 50-55).

**Consider claim 13.** The method of claim 4, Martin et al. discloses and shows wherein the origination message includes a dummy phone number consisting of all '0s' (abstract, title, fig. 4-5, col. 6 lines: 5-21).

**Consider claim 14.** The method of claim 9, Martin et al. discloses and shows wherein the step of assigning wireless channels comprises: assigning a forward traffic channel and a reverse traffic channel corresponding thereto according to the assignment information, and transmitting a preamble over the assigned reverse traffic channel (abstract, title, fig. 1-5, col. 4 lines: 1-9, 17-18); and exchanging station and performing acknowledgement (ACK) orders with the base service negotiation with the base station (col. 6 lines: 50-55).

**Consider claim 15.** The method of claim 9, Martin et al. discloses and shows wherein the origination message includes a dummy phone number consisting of all '0s' (abstract, title, fig. 4-5, col. 6 lines: 5-21).

**Consider claim 16.** The method of claim 10, Martin et al. discloses and shows wherein the step of setting up the wireless channels comprises: assigning a forward traffic Channel and a reverse traffic channel corresponding thereto according to the assignment information, and transmitting a preamble over the assigned reverse traffic channel (abstract, title, fig. 1-5, col. 4 lines: 1-9, 17-18); and exchanging acknowledgement (ACK) orders with the base station and performing service negotiation with the base station (col. 6 lines: 50-55).

***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **DIEGO HERRERA** whose telephone number is (571)272-0907. The examiner can normally be reached on **Monday-Friday**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (571) 272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Diego Herrera/  
Examiner, Art Unit 2617

/Lester Kincaid/  
Supervisory Patent Examiner, Art Unit 2617